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| JUN 14 2001 | |
| Application Number | 09/712,481 |
| Filing Date | November 15 2000 ENTER 1600/2900 |
| First Named Inventor | Watanabe and Choi |
| Group Art Unit | 1623 |
| Examiner Name | |
| Attorney Docket Number | 04670.105008 (SCH 2000) |

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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| Sheet | 2 | of | 6 | Attorney Docket Number | 04670.105008 (SCH 2000) |

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| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | |
| <i>Jee</i> | BA | AGUESSE-GERMON, S. et al. "Inhibitory Effect of 2'-Fluoro-5-Methyl-β-L-Arabino-Furanosyl-Uracil on Duck Hepatitis B Virus Replication," <i>Antimicrob. Agents Chemother.</i> , 1998, 42 (2), 369-376. (February, 1998). | | T ⁶ |
| <i>Jee</i> | BB | ALTER M. J. et al. <i>J.A.M.A.</i> , 1990a, 264, 2231-2235. (November 7, 1990). | | |
| <i>Jee</i> | BC | ALTER, M. J. et al. "The Natural History of Community-Acquired Hepatitis C in the United States," <i>N. Engl. J. Med.</i> , 1992, 327 (27), 1899-1905. (December 31, 1992). | | |
| <i>Jee</i> | BD | ALTER, M. J. <i>J. Gastro. Hepatol.</i> , 1990, 1, 78-94. | | |
| <i>Jee</i> | BE | ALTER, H. J. et al. "Detection of Antibody to Hepatitis C Virus in Prospectively Followed Transfusion Recipients with Acute and Chronic Non-A, Non-B Hepatitis," <i>N. Engl. J. Med.</i> , 1989, 321, 1494-1500. (November 30, 1989). | | |
| INC. | BF | <i>Antimicrob. Agents Chemother.</i> , 1986, 30, 491-498. | | |
| <i>Jee</i> | BG | BAKER, B. R. et al. "Synthesis of Potential Anticancer Agents. VIII. Nucleosides Derived from L-Rhamnofuranose," <i>J. Org. Chem.</i> , 1957, 22, 966-971. (XXXX August, 1957). | | |
| <i>Jee</i> | BH | BARTON, D. H. R. et al. "A New Method for the Deoxygenation of Secondary Alcohols," <i>J. Chem. Soc., Perkin Trans. I.</i> , 1975, 574-1585. (Issue No. 6). | | |
| <i>Jee</i> | BI | CHANG, C.-N. et al. "Deoxycytidine Deaminase-resistant Stereoisomer Is the Active Form of (±)-2',3'-Dideoxy-3'-thiacytidine in the Inhibition of Hepatitis B Virus Replication," <i>Journal of Biological Chemistry</i> , 1992, 267 (20), 13938-13942. (July 15, 1992). | | |
| <i>Jee</i> | BJ | CHOU, T.-C. et al. "Quantitative Analysis of Dose-Effect Relationships: the Combined Effects of Multiple Drugs or Enzyme Inhibitors," <i>Adv. Enzyme Regul.</i> , 1984, 22, 27-55. | | |
| <i>Jee</i> | BK | CHU, C. K. et al. "Use of 2'-Fluoro-5-Methyl-β-L-Arabinofuranosyluracil as a Novel Antiviral Agent for Hepatitis B Virus and Epstein-Barr Virus," <i>Antimicrob. Agents Chemother.</i> , 1995, 39 (4), 979-981. (April, 1995). | | |
| <i>Jee</i> | BL | COOK, S. L. et al. "Nucleoside 4',5'-Enol Acetates. Synthesis and Chemistry of a Unique Uridine O ² ,4'-Anhydronucleoside," <i>J. Am. Chem. Soc.</i> , 1979, 101 (6), 1554-1564. (2/14/99). | | |

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INC. Incomplete; see PTO-892 for complete citation.

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|--------------------|-------------|--------------------|-----------------|----------|
| Examiner Signature | L. E. Crane | <i>L. E. Crane</i> | Date Considered | 06/19/02 |
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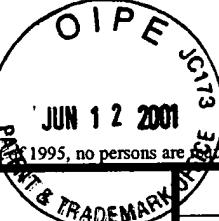
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JUN 14 2001

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| Application Number | 09/712,481 |
| Filing Date | November 13, 2000 |
| First Named Inventor | Watanabe and Choi |
| Group Art Unit | 1623 |
| Examiner Name | |

Sheet 3 of 6 Attorney Docket Number 04670.105008 (SCH 2000)

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ⁶ |
|---------------------|-----------------------|--|----------------|
| <i>Me</i> | CA | DIENSTAG, J. L. "Non-A, Non-B Hepatitis. I. Recognition, Epidemiology, and Clinical Features," <i>Gastro</i> , 1983, 85, 439-462. (August, 1983). | |
| <i>Me</i> | CB ! | DU, J. et al. "A Practical Synthesis of L-FMAU From L-Arabinose," <i>Nucleosides & Nucleotides</i> , 1999, 18 (2), 187-195. | |
| <i>Me</i> | CC | FOX, J. J. et al. "Pyrimidine Nucleosides. I. A New Route for the Synthesis of Thymine Nucleosides," <i>J. Am. Chem. Soc.</i> , 1956, 78, 2117-2122.M (May 20, 1956). | |
| <i>Jel</i> | CD | FOX, J. J. et al. "Pyrimidine Nucleosides. IV. The Synthesis of 1-β-D-Lyxofuranosylthymine," <i>J. Am. Chem. Soc.</i> , 1958, 80, 5155-5160. (October 5, 1958). | |
| <i>Me</i> | CE ! | FRIED, M. W. et al. "FIAU, A New Oral Anti-Viral Agent, Profoundly Inhibits HBV DNA in Patients with Chronic Hepatitis B," <i>AASLD Abstracts of Papers</i> , 1992, 16 (2), 127A. | |
| <i>Me</i> | CF | FURMAN, P. A. et al. "The Anti-Hepatitis B Virus Activities, Cytotoxicities, and Anabolic Profiles of the (-) and (+) Enantiomers of cis-5-Fluoro-1-[2-(Hydroxymethyl,-1,3-oxathiolane-5-yl]-Cytosine," <i>Antimicrobial Agents and Chemotherapy</i> , 1992, 36 (12), 2686-2692. (12/92) | |
| <i>Me</i> | CG ! | HANTZ, O. et al. "Inhibition of human and woodchuck hepatitis virus DNA polymerase by the triphosphates of acyclovir, 1-(2'-deoxy-2'-fluoro-β-D-arabinofuranosyl)-5-iodocytosine and E-5-(2-bromovinyl)-2'-deoxyuridine," <i>Antiviral Res.</i> , 1984, 4, 187-199. | |
| <i>Me</i> | CH | HANTZ, O. et al. "Comparison of Properties of Woodchuck Hepatitis Virus and Human Hepatitis B Virus Endogenous DNA Polymerases," <i>Antimicrob. Agents Chemother.</i> , 1984, 25 (2), 242-246. (February, 1984). | |
| <i>Me</i> | CI ! | HOLY, A. et al. "Nucleic Acid Components and their Analogues. CL. Preparation and Properties of Some Nucleoside Hydroxyalkanephosphonates," <i>Coll. Czech. Chem. Commun.</i> , 1972, 37, 2066-2076. | |
| <i>Me</i> | CJ ! | ISHIDO, Y. et al. "Partial Protection of Carbohydrate Derivatives. Part 3. Regioselective 2'-O-Deacylation of Fully Acylated Purine and Pyrimidine Ribonucleosides with Hydrozine Hydrate," <i>J. Chem. Soc., Perkin Trans. I</i> , 1979, 2088. (Issue No. 8), | |

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| Sheet | 4 | of | 6 | Attorney Docket Number | 04670.105008 (SCH 2000) |
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| Application Number | 09/712,481 | JUN 14 2001 |
| Filing Date | November 13, 2000 | TECH CENTER 1600/2900 |
| First Named Inventor | Watanabe and Choi | |
| Group Art Unit | 1623 | |
| Examiner Name | | |

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|---------------------|-----------------------|---|----------------|
| <i>Re</i> | DA | KAZIMIERCZUK, Z. et al. "Synthesis of 2'-Deoxytubercidin, 2'-Deoxyadenosine, and Related 2'-Deoxynucleosides via a Novel Direct Stereospecific Sodium Salt Glycosylation Procedure," <i>J. Am. Chem. Soc.</i> , 1984, 106, 6379-6382. | |
| <i>Re</i> | DB | Klecker, R. W.; Katki, A. G.; Collins, J. M.; <i>Mol. Pharmacol.</i> , 1994, 46, 1204-1209. (12/94). | |
| <i>Re</i> | DC | KORBA, B. E. et al. "A cell culture assay for compounds which inhibit hepatitis B virus replication," <i>Antiviral Res.</i> , 1991, 15, 217-228. (Issue No. 1; January, 1991). | |
| <i>Re</i> | DD | LEWIS, W. et al. "Mitochondrial toxicity of antiviral drugs," <i>Nature Medicine</i> , 1995, 1 (5), 417-422. (May, 1995). | |
| <i>Re</i> | DE! | LEWIS, W. et al. "Mammalian DNA Polymerases α, β, γ, δ, and ε Incorporate Fialuridine (FIAU) Monophosphate into DNA and Are Inhibited Competitively by FIAU Triphosphate," <i>Biochemistry</i> , 1994, 33, 14620-14624. (Issue No. 48). | |
| <i>Re</i> | DF | MACILWAIN, C. "NIH, FDA seek lessons from hepatitis B drug trial deaths," <i>Nature</i> , 1993, 364 (6435), 275. (July 22, 1993). | |
| <i>Re</i> | DG | MATSUDA, A. et al. "A Simplified Method for the Synthesis of Pyrimidine Nucleosides," <i>Synthesis</i> , 1981, 748. (Issue No. 9; September, 1981). | |
| <i>Re</i> | DH! | MCDOUGAL, J. S. et al. "Immunoassay for the Detection and Quantitation of Infectious Human Retrovirus. Lymphadenopathy-Associated Virus (LVA)," <i>J. Immun. Meth.</i> , 1985, 76, 171-183. | |
| <i>Re</i> | DI | MCKENZIE, R. et al. "Hepatic Failure and Lactic Acidosis due to Fialuridine (FIAU), an Investigational Nucleoside Analogue for Chronic Hepatitis B," <i>New Eng. J. Med.</i> , 1995, 333 1099-1105. (Issue No. 17; October 26, 1995). | |
| <i>Re</i> | DJ | MIZUNO, Y. et al. "A Novel Synthesis of Purine β-D-Nucleosides via Purine 8,5'-S-Anhydronucleosides," <i>J. Am. Chem. Soc.</i> , 1972, 94 (13), 4737-4739. (06/28/72). | |
| <i>Re</i> | DK! | NIEDBALLA, U. et al. "A General Synthesis of N-Glycosides. I. Synthesis of Pyrimidine Nucleosides," <i>J. Org. Chem.</i> , 1974, 39 (25), 3654-3660. | |

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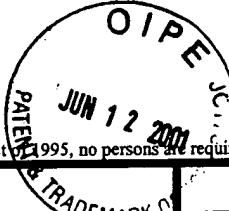
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| | | | | Filing Date | November 13, 2000 |
| | | | | First Named Inventor | Watanabe and Choi |
| | | | | Group Art Unit | 1623 |
| | | | | Examiner Name | |
| Sheet | 5 | of | 6 | Attorney Docket Number | 04670.105008 (SCH 2000) |

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| <i>Yee</i> | EA | PAI, S. P. et al. "Inhibition of Hepatitis B Virus by a Novel L-Nucleoside, 2'-Fluoro-5-Methyl-β-L-Arabinofuranosyl Uracil," <i>Antimicrob. Agents. Chemother.</i> , 1996, 40 (2), 380-386. (February, 1996). | | T ⁶ |
| <i>Yee</i> | EB | PANKIEWICZ, K. et al. "Nucleosides. 121. Improved and General Synthesis of 2'-Deoxy-C-Nucleosides. Synthesis of 5-(2-Deoxy-β-D-erythro-pentofuranosyl)uracil, -1-methyluracil, -1,3-dimethyluracil, and -isouracil," <i>J. Org. Chem.</i> , 1982, 47 (3), 485. (Jan. 29, 1982). | | |
| <i>Yee</i> | EC | PARKER, W. B. et al. "Mitochondrial Toxicity of Antiviral Nucleoside Analogs," <i>J. NIH Res.</i> , 1994, 6, 57-61. (March, 1994). | | |
| <i>Yee</i> | ED | PFITZNER, K. E. et al. "Sulfoxide-Carbodiimide Reactions. I. A Facile Oxidation of Alcohols," <i>J. Am. Chem. Soc.</i> , 1965, 87 (24), 5661-5670. (December 20, 1965). | | |
| <i>Yee</i> | EE | RAAD, I. et al. "Maximal Sterile Barriers (MSB) During the Insertion of Central Venous Catheters (CVC) for the Prevention of Infections: A Prospective Randomized Study," Abstracts of the 32 nd Interscience Conference on Antimicrobial Agents and Chemotherapy, 1992, Abstract #264 | | |
| <i>Yee</i> | EF | REIST, E. J. et al. "Synthesis of 9-β-D-Arabinofuranosylguanine," <i>Biochemistry</i> , 1964, 3 (1), 15-18. (January, 1964). | | |
| <i>Yee</i> | EG | ROBINS, M. J. et al. "Nucleic Acid Related Compounds. 42. A General Procedure for the Efficient Deoxygenation of Secondary Alcohols. Regiospecific and Stereospecific Conversion of Ribonucleosides to 2'-Deoxynucleosides," <i>J. Am. Chem. Soc.</i> , 1983, 105 (12), 4059-4065. (June 15, 1983). | | |
| <i>Yee</i> | EH | SCHINAZI, R. F. et al. "Activities of 3'-Azido-3'-Deoxythymidine Nucleotide Dimers in Primary Lymphocytes Infected with Human Immunodeficiency Virus Type 1," <i>Antimicrob. Agents Chemother.</i> , 1990, 34 (6), 1061. (June, 1990). | | |
| <i>Yee</i> | EI | SCHINAZI, R. F. et al. "Combinations of Isoprinosine and 3'-Azido-3'-Deoxythymidine in Lymphocytes Infected with Human Immunodeficiency Virus Type 1," <i>Antimicrob. Agents Chemother.</i> , 1988, 32 (12), 1784-1787. (December, 1988). | | |

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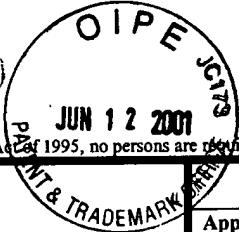
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| Filing Date | November 18, 2000 |
| First Named Inventor | TECH CENTER 1600/290 Watanabe and Choi |
| Group Art Unit | 1623 |
| Examiner Name | |

Sheet 6 of 6 Attorney Docket Number 04670.105008 (SCH 2000)

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|---------------------|-----------------------|---|----------------|
| <i>JRC</i> | FA | SCHINAZI, R. F. et al. "Effect of Combinations of Acyclovir with Vidarabine or Its Monophosphate on Herpes Simplex Viruses in Cell Culture and in Mice," <i>Antimicrobial Agents and Chemotherapy</i> , 1982, 22 (3), 499-507. (September, 1982). | |
| <i>JRC</i> | FB | SCHINAZI, R. F. et al. "Selective Inhibition of Human Immunodeficiency viruses by Racemates and Enantiomers of cis-5-Fluoro-1-[2-(Hydroxymethyl, 1,3-Oxathiolane-5-yl]Cytosine" <i>Antimicrobial Agents and Chemotherapy</i> , 1992, 36 (11), 2423-2431. (11/92). | |
| <i>JRC</i> | FC | ŠMEJKAL, J. et al. "Nucleic Acids Components and their Analogues. LII. Preparation of 1,2'-Deoxy-β-L-Ribofuranosylthymine, 'L-Thymidine,'" <i>Coll. Czech. Chem. Commun.</i> , 1964, 29 (11), 2809-2813. (November, 1964). | |
| <i>JRC</i> | FD | SPIRA, T. J. et al. "Micromethod for Assaying Reverse Transcriptase of Human T-Cell Lymphotropic Virus Type III/Lymphadenopathy-Associated Virus," <i>J. Clin. Meth.</i> , 1987, 25, 97-99. (XIssue No. 1; January, 1987). | |
| <i>JRC</i> | FE ! | TENNANT, B. et al. "Pharmacokinetic and Pharmacodynamic Studies of 1-(2-Fluoro-5-methyl-β-L-arabinofuranosyl)uracil (L-FMAU) in the Woodchuck Model of Hepatitis B Virus (HBV) Infection," <i>Antiviral Res.</i> , 1996, 34 (2), A52. | |
| <i>JRC</i> | FF | TOUCHETTE, N. "HBV-Drug Deaths Prompt Restudy of Similar Antivirals," <i>J. NIH Res.</i> , 1993, 5, 33-35. (September, 1993). | |
| <i>JRC</i> | FG ! | VORBRUGGEN, H. et al. "Nucleoside Synthesis with Trimethylsilyl Triflate and Perchlorate as Catalysts," <i>Chem. Ber.</i> , 1981, 114, 1234-1255. | |
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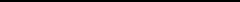
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| | | | | Application Number | 09/712,481 |
| | | | | Filing Date | November 13, 2000 |
| | | | | First Named Inventor | Watanabe <i>et al.</i> |
| | | | | Group Art Unit | 1623 |
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